Computing

Archives for Informatics and Numerical Computation Archiv für Informatik und Numerik

Editorial Board / Herausgeber-Kollegium

R. Albrecht, Innsbruck

R. L. Constable, Ithaca, N.Y.

W. Händler, Erlangen

Advisory Board / Fachbeirat

G. Alefeld, Karlsruhe R. Ansorge, Hamburg

H. Brunner, Fribourg

R. E. Burkard, Graz

L. Collatz, Hamburg

W. H. Enright, Toronto

K. Mehlhorn, Saarbrücken

J. R. Mühlbacher, Linz

K. Nickel, Freiburg i. Br.

H. J. Stetter, Wien

W. Knödel, Stuttgart

J. W. Schmidt, Dresden H. J. Schneider, Erlangen

T. G. Szymanski, Murray Hill, N. J.

W. L. Miranker, Yorktown Heights, N.Y.

G. Tinhofer, München

W. Törnig, Darmstadt

G. Vinek, Wien

Hi. Wacker, Linz

H. Werner, Bonn

H. Wettstein, Karlsruhe

Editorial Assistants / Redaktionssekretäre

H. Lehner and E. Weinmüller, Wien

Vol 33, 1984

ISSN 0010-485X



The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions including microform is transferred to the publisher.

Alle Rechte, einschließlich das der Übersetzung in fremde Sprachen und das der photomechanischen Wiedergabe oder einer sonstigen Vervielfältigung, auch in Mikroform, vorbehalten.

C 1984 by Springer-Verlag/Wien

Contents / Inhalt

Contributed Papers / Originalarbeiten

	1.1
Akl, S. G.: Optimal Parallel Algorithms for Computing Convex Hulls and for Sorting	1- 11
Anderssen, R. S., de Hoog, F. R.: Finite Difference Methods for the Numerical Differentiation of Non-Exact Data	259–267
Burmeister, W., Schmidt, J. W.: Determination of the Cone Radius for Positive Concave Operators	37- 49
Chen, Dao-qi, Tewarson, R. P.: A Quasi-Newton Method with Sparse Triple Factorization for Unconstrained Minimization	315–329
Cornelius, H., Lohner, R.: Computing the Range of Values of Real Functions with Accuracy Higher than Second Order	331–347
Czech, Z.: A Region Analysis Algorithm for the Live Variables Problem	193–210
Derigs, U.: Alternate Strategies for Solving Bottleneck Assignment Problems – Analysis and Computational Results	95–106
Devroye, L.: A Simple Algorithm for Generating Random Variates with a Log-Concave Density	247–257
Frank, R., Macsek, F., Ueberhuber, C. W.: Iterated Defect Correction for Differential Equations. Part II: Numerical Experiments	107–129
Hoog, F. R. de, s. Anderssen, R. S.	
Jahn, KU.: Maximale Fixpunkte von Intervallfunktionen	141-151
Lamp, U., Schleicher, T., Stephan, E., Wendland, W. L.: Galerkin Collocation for an Improved Boundary Element Method for a Plane Mixed Boundary Value Problem	269-296
Lausen, G.: Integrated Concurrency Control in Shared B-Trees	13- 26
Lohner, R., s. Cornelius, H.	
Macsek, F., s. Frank, R.	
Petković, Ljiljana, Petković, M.: On the k-th Root in Circular	27- 35

Petković, M., s. Petković, Ljiljana	
Sanz-Serna, J. M., s. Verwer, J. G.	
Schleicher, T., s. Lamp, U.	
Schmidt, J. W., s. Burmeister, W.	
Schwandt, H.: A Symmetric Iterative Interval Method for Systems of Nonlinear Equations	153–164
Schreck, H., s. Tinhofer, G.	
Stephan, E., s. Lamp, U.	
Strehmel, K., Weiner, R.: Lokale Fehlerschätzung mittels modifizierter Richardson-Extrapolation in linear impliziten Einschrittverfahren	131–140
Tewarson, R. P., s. Chen, Dao-qi	
Tinhofer, G., Schreck, H.: Linear Time Tree Codes	211-225
Tzschach, H.: M-Vollständigkeit von Warteschlangensystemen	227-235
Ueberhuber, C. W., s. Frank, R.	
Verwer, J. G., Sanz-Serna, J. M.: Convergence of Method of Lines Approximations to Partial Differential Equations	297–313
Weiner, R., s. Strehmel, K.	
Wendland, W. L., s. Lamp, U.	
West, G.: Eine schnelle Mellin-Transformation	237-245
Ypma, T. J.: Difference Newton-Like Methods Under Weak Continuity Conditions	51- 64
Short Communications / Kurze Mitteilungen	
Akrivis, G., Förster, KJ.: On the Definiteness of Quadrature Formulae of Clenshaw-Curtis Type	363–366
Alefeld, G.: The Centered Form and the Mean Value Form – A Necessary Condition That They Yield the Range	165–169
Ansorge, R.: Connections Between the Cimmino-Method and the Kaczmarz-Method for the Solution of Singular and Regular Systems of Equations.	367–375
Böhm, W.: Efficient Evaluation of Splines	171-177
Brügner, G.: Rounding Error Analysis of Interpolation Procedures	83- 27
Dietze, S.: An Example for the Regula-falsi Method with an	00- 07
Asymptotic Cycle	75– 81
Förster, KJ., s. Akrivis, G.	
Knuth, D. E.: An Algorithm for Brownian Zeroes	89 94

Martinez, J. M.: A Quasi-Newton Method with Modification of One Column per Iteration	353–362
Moret, I.: A Note on Newton Type Iterative Methods	65- 73
Trummer, M. R.: A Note on the ART of Relaxation	349-352
van Veldhuizen, M.: Asymptotic Expansions of the Global Error for the Implicit Midpoint Rule (Stiff Case)	185–192
Yamamoto, T.: The Symm-Wilkinson Method for Improving an Approximate Eigenvalue and Its Associated Eigenvector	179–184

Listed in Current Contents